Chango Plot Attributor

INTRODUCTION

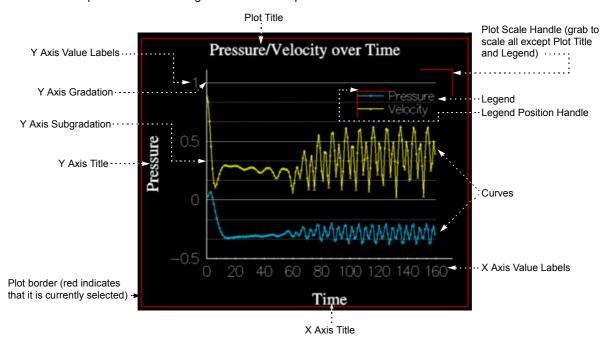
EnSight provides a full-featured X-Y plotting system fully integrated with the query and transient data handling capabilities. Query entities (see How To Query/Plot) are assigned to *plotters*. Plotters display one or more curves where each curve is based on the data from a single query entity. If the query entity is changed, the corresponding curve will automatically update. Plotter attributes (controlling aspects of appearance such as color of curves and titles, axis labeling, gradation and tick marks, and border/background color) can be edited in Plot Mode.

This article is divided into the following sections:

Anatomy of a Plotter
Create Plotters
Select Plotters and Curves
Move and Resize Plotters
Set Plotter Visibility
Set Title, Background, Legend, Border, Position Attributes
Set Axis Attributes
Set Curve Attributes
Delete Plotters

Anatomy of a Plotter

Plotters are composed of the following fundamental components:









Create Plotters

Plotters are automatically created when you assign a query entity to a new plotter (see How To Query/Plot for details).

Select Plotters and Curves

When you create a new plotter, it automatically becomes the currently selected plotter (as shown by the border drawn in the default highlight color). Any action to change plotter attributes always operates on the currently selected plotter(s) (or the plotter defaults if none are selected). To select plotters:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Move the mouse pointer into the Graphics Window and click the left mouse button anywhere within the desired plotter. You can add to an existing selection by holding down the Control key as you click in additional plotters.

Since plotters may contain multiple curves, it is necessary to select individual curves within a plotter for subsequent action. If no curves are selected, changes to curve attributes reset the defaults for subsequently created curves. To select curves within a plotter:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Move the mouse pointer into the graphics window and click the left mouse button on the desired curve. You can add to an existing selection by holding down the Control key as you click on additional curves.

Move and Resize Plotters

Plotters can be easily moved and resized. You can either reposition a plotter with the mouse in the Graphics Window, or precisely by entering exact values. To move or resize a plotter interactively:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Select the desired plotter (as described above).
- 3. To move a plotter, move the mouse pointer into the Graphics Window and into the selected plotter. Click and hold the left mouse button and drag the plotter to the desired location.
- 4. To resize a plotter, move the mouse pointer into the Graphics Window and place the it over one corner or side of the selected plotter. Click and hold the left mouse button and drag the corner or side to the desired location.

A plotter can also be positioned precisely. See below for details.

Set Plotter Visibility

Selected plotters can be made invisible:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Select the desired plotter(s).
- 3. Click the Plotter Visibility Toggle to toggle display of the selected plotters on or off (when not in Plot Mode).



Plotters that are currently invisible are displayed dimmed while in Plot mode.







Set Title, Background, Legend, Border, Position Attributes

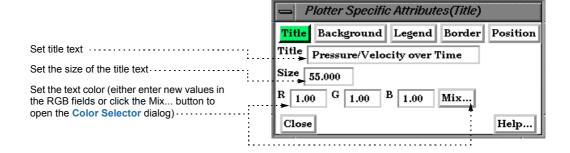
Overall attributes of plotters are controlled through the Plotter Specific Attributes dialog:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Select the desired plotter(s).
- 3. Click the Graph Attributes icon.

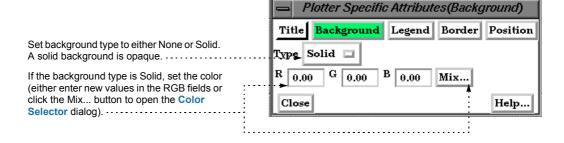


The Plotter Specific Attributes dialog contains five sections: Title, Background, Legend, Border, and Position. Click the button at the top to display the corresponding section.

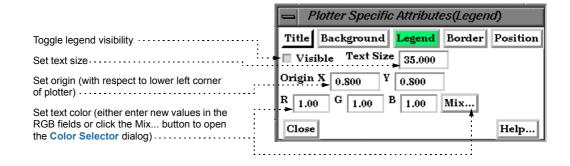
The Title section controls the main title at the top of the plotter (remember to press return after changing a text field):



The Background section controls the type and color of the plotter background:

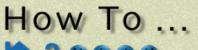


The Legend section controls the plotter legend text. The actual text in the legend is specific to the individual curves displayed in the plotter. See Set Curve Attributes below.



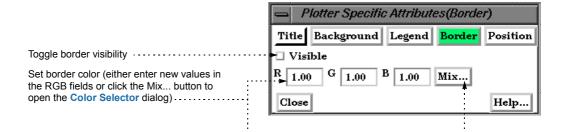




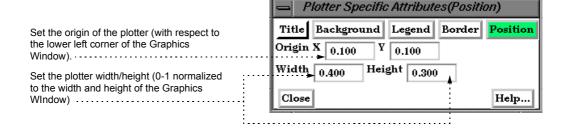




The Border section controls the visibility and color of the plotter border:



The Position section controls the size and position of the plotter:









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Set Axis Attributes

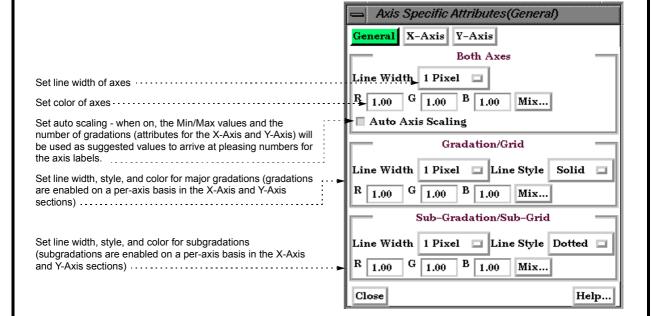
Axis attributes of plotters are controlled through the Axis Specific Attributes dialog:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Select the desired plotter(s).
- 3. Click the Axis Attributes icon.



The Axis Specific Attributes dialog contains three sections: General, X-Axis, and Y-Axis. Click the button at the top to display the corresponding section.

The General section controls axis width, color, and scaling as well as Gradation and Subgradation marks.

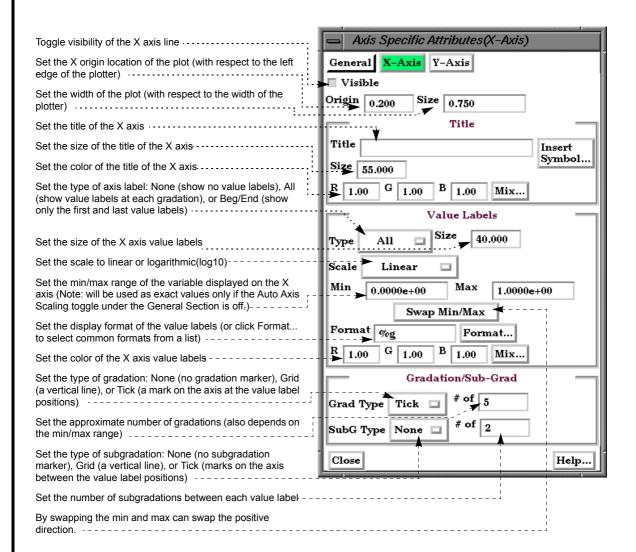








The X-Axis section controls the title, value labels, and gradation marks for the X axis. (The Y-Axis section is similar and is not presented here).









Set Curve Attributes

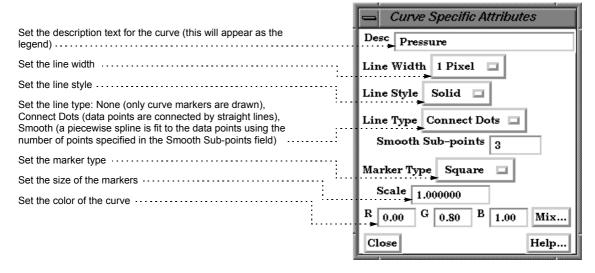
Curve attributes are controlled through the Curve Specific Attributes dialog:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Select the desired curve(s) by clicking on them in the Graphics Window (control-click to select multiple curves).

If no curves are selected, any changes are applied to the curve defaults which will effect any curves created in the future.



3. Click the Curve Attributes icon.



Delete Plotters

Existing plotters can be deleted:

- 1. Click Plot in the Mode Selection area to enter Plot mode.
- 2. Select the desired plotter(s).
- 3. Click the Delete icon.

Note that deleting a plotter has no effect on any query entities that were attached to the plotter.

SEE ALSO

How To Query/Plot

User Manual: Plot Mode



